Ponnusamy Senthil Kumar

List of Publications by Year
in descending order

589 papers	23,527 citations	11908 72 h-index	18944 123 g-index
599 all docs	599 docs citations	599 times ranked	15401 citing authors

#	Article	IF	Citations
1	Efficient techniques for the removal of toxic heavy metals from aquatic environment: A review. Journal of Environmental Chemical Engineering, 2017, 5, 2782-2799.	3.3	1,066
2	A review on heavy metal pollution, toxicity and remedial measures: Current trends and future perspectives. Journal of Molecular Liquids, 2019, 290, 111197.	2.3	855
3	Adsorption of dye from aqueous solution by cashew nut shell: Studies on equilibrium isotherm, kinetics and thermodynamics of interactions. Desalination, 2010, 261, 52-60.	4.0	668
4	A review on conventional and novel materials towards heavy metal adsorption in wastewater treatment application. Journal of Cleaner Production, 2021, 296, 126589.	4.6	628
5	Effective water/wastewater treatment methodologies for toxic pollutants removal: Processes and applications towards sustainable development. Chemosphere, 2021, 280, 130595.	4.2	397
6	Removal of colorants from wastewater: A review on sources and treatment strategies. Journal of Industrial and Engineering Chemistry, 2019, 75, 1-19.	2.9	375
7	A review on effective removal of emerging contaminants from aquatic systems: Current trends and scope for further research. Journal of Hazardous Materials, 2021, 409, 124413.	6.5	309
8	A critical review on the biochar production techniques, characterization, stability and applications for circular bioeconomy. Biotechnology Reports (Amsterdam, Netherlands), 2020, 28, e00570.	2.1	308
9	A novel detection method for organophosphorus insecticide fenamiphos: Molecularly imprinted electrochemical sensor based on core-shell Co3O4@MOF-74 nanocomposite. Journal of Colloid and Interface Science, 2021, 592, 174-185.	5.0	307
10	A review on photochemical, biochemical and electrochemical transformation of CO2 into value-added products. Journal of CO2 Utilization, 2019, 33, 131-147.	3.3	303
11	Adsorption behavior of nickel(II) onto cashew nut shell: Equilibrium, thermodynamics, kinetics, mechanism and process design. Chemical Engineering Journal, 2011, 167, 122-131.	6.6	280
12	Application of adsorption process for effective removal of emerging contaminants from water and wastewater. Environmental Pollution, 2021, 280, 116995.	3.7	238
13	A review on cleaner strategies for chromium industrial wastewater: Present research and future perspective. Journal of Cleaner Production, 2019, 228, 580-593.	4.6	235
14	Critical review on hazardous pollutants in water environment: Occurrence, monitoring, fate, removal technologies and risk assessment. Science of the Total Environment, 2021, 797, 149134.	3.9	233
15	Advances in production and application of biochar from lignocellulosic feedstocks for remediation of environmental pollutants. Bioresource Technology, 2019, 292, 122030.	4.8	231
16	Recent advances in carbon nanomaterials-based electrochemical sensors for food azo dyes detection. Food and Chemical Toxicology, 2022, 164, 112961.	1.8	231
17	A review on biosynthesis of metal nanoparticles and its environmental applications. Chemosphere, 2021, 264, 128580.	4.2	227
18	A comprehensive review on different approaches for CO2 utilization and conversion pathways. Chemical Engineering Science, 2021, 236, 116515.	1.9	190

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19	Microalgae biomass as a sustainable source for biofuel, biochemical and biobased value-added products: An integrated biorefinery concept. Fuel, 2022, 307, 121782.	3.4	190
20	Enhanced adsorptive removal of sulfamethoxazole from water using biochar derived from hydrothermal carbonization of sugarcane bagasse. Journal of Hazardous Materials, 2021, 407, 124825.	6.5	171
21	Nanochemistry approach for the fabrication of Fe and N co-decorated biomass-derived activated carbon frameworks: a promising oxygen reduction reaction electrocatalyst in neutral media. Journal of Nanostructure in Chemistry, 2022, 12, 429-439.	5.3	171
22	A review on bioremediation approach for heavy metal detoxification and accumulation in plants. Environmental Pollution, 2022, 301, 119035.	3.7	169
23	Removal of toxic pollutants from water environment by phytoremediation: A survey on application and future prospects. Environmental Technology and Innovation, 2019, 13, 264-276.	3.0	168
24	Thermodynamic and kinetic studies of cadmium adsorption from aqueous solution onto rice husk. Brazilian Journal of Chemical Engineering, 2010, 27, 347-355.	0.7	159
25	Sustainable approaches for removing Rhodamine B dye using agricultural waste adsorbents: A review. Chemosphere, 2022, 287, 132080.	4.2	156
26	Treatment of dye wastewater using an ultrasonic aided nanoparticle stacked activated carbon: Kinetic and isotherm modelling. Bioresource Technology, 2018, 250, 716-722.	4.8	143
27	A review on contamination and removal of sulfamethoxazole from aqueous solution using cleaner techniques: Present and future perspective. Journal of Cleaner Production, 2020, 250, 119553.	4.6	143
28	Photocatalysis for removal of environmental pollutants and fuel production: a review. Environmental Chemistry Letters, 2021, 19, 441-463.	8.3	140
29	Novel adsorbent from agricultural waste (cashew NUT shell) for methylene blue dye removal: Optimization by response surface methodology. Water Resources and Industry, 2015, 11, 64-70.	1.9	137
30	Removal of methylene blue dye from aqueous solution by activated carbon prepared from cashew nut shell as a new low-cost adsorbent. Korean Journal of Chemical Engineering, 2011, 28, 149-155.	1.2	134
31	A review on catalytic-enzyme degradation of toxic environmental pollutants: Microbial enzymes. Journal of Hazardous Materials, 2021, 419, 126451.	6.5	129
32	Recent advances and sustainable development of biofuels production from lignocellulosic biomass. Bioresource Technology, 2022, 344, 126203.	4.8	129
33	Statistical analysis of adsorption isotherm models and its appropriate selection. Chemosphere, 2021, 276, 130176.	4.2	125
34	A review on algal-bacterial symbiotic system for effective treatment of wastewater. Chemosphere, 2021, 271, 129540.	4.2	121
35	A review on recent trends in the removal of emerging contaminants from aquatic environment using low-cost adsorbents. Chemosphere, 2022, 287, 132270.	4.2	118
36	Kinetics and equilibrium studies of Pb2+ in removal from aqueous solutions by use of nano-silversol-coated activated carbon. Brazilian Journal of Chemical Engineering, 2010, 27, 339-346.	0.7	118

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37	Adsorption isotherm, kinetics and thermodynamic analysis of Cu(II) ions onto the dried algal biomass () Tj ETQq1 1 0.784314 rgBT /O	2.9	117
38	Adsorption properties and mechanism of barium (II) and strontium (II) removal from fracking wastewater using pecan shell based activated carbon. Journal of Cleaner Production, 2018, 193, 1-13.	4.6	117
39	A critical review on recent developments in the low-cost adsorption of dyes from wastewater. , 0, 172, 395-416.		114
40	Pecan shell based activated carbon for removal of iron(II) from fracking wastewater: Adsorption kinetics, isotherm and thermodynamic studies. Chemical Engineering Research and Design, 2018, 114, 107-122.	2.7	113
41	A review on sources, identification and treatment strategies for the removal of toxic Arsenic from water system. Journal of Hazardous Materials, 2021, 418, 126299.	6.5	113
42	Valorization of agro-industrial wastes for biorefinery process and circular bioeconomy: A critical review. Bioresource Technology, 2022, 343, 126126.	4.8	111
43	A critical and recent developments on adsorption technique for removal of heavy metals from wastewater-A review. Chemosphere, 2022, 303, 135146.	4.2	110
44	Removal of cadmium(II) from aqueous solution by agricultural waste cashew nut shell. Korean Journal of Chemical Engineering, 2012, 29, 756-768.	1.2	108
45	Techniques and modeling of polyphenol extraction from food: a review. Environmental Chemistry Letters, 2021, 19, 3409-3443.	8.3	107
46	EFFECT OF TEMPERATURE ON THE ADSORPTION OF METHYLENE BLUE DYE ONTO SULFURIC ACIDâ€“TREATED ORANGE PEEL. Chemical Engineering Communications, 2014, 201, 1526-1547.	1.5	104
47	Synthesis of nano-sized chitosan blended polyvinyl alcohol for the removal of Eosin Yellow dye from aqueous solution. Journal of Water Process Engineering, 2016, 13, 127-136.	2.6	103
48	Fast kinetics and high adsorption capacity of green extract capped superparamagnetic iron oxide nanoparticles for the adsorption of Ni(II) ions. Journal of Industrial and Engineering Chemistry, 2018, 59, 230-241.	2.9	103
49	Performance study on sequestration of copper ions from contaminated water using newly synthesized high effective chitosan coated magnetic nanoparticles. Journal of Molecular Liquids, 2016, 214, 335-346.	2.3	102
50	Methods of detection of food-borne pathogens: a review. Environmental Chemistry Letters, 2021, 19, 189-207.	8.3	98
51	Conversion of green algal biomass into bioenergy by pyrolysis.ÂA review. Environmental Chemistry Letters, 2020, 18, 829-849.	8.3	97
52	Hybrid synthesis of novel material through acid modification followed ultrasonication to improve adsorption capacity for zinc removal. Journal of Cleaner Production, 2018, 172, 92-105.	4.6	96
53	Elimination of rhodamine B from textile wastewater using nanoparticle photocatalysts: A review for sustainable approaches. Chemosphere, 2022, 287, 132162.	4.2	95
54	Food preservation techniques and nanotechnology for increased shelf life of fruits, vegetables, beverages and spices: a review. Environmental Chemistry Letters, 2021, 19, 1715-1735.	8.3	93

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55	Heavy metal toxicity, sources, and remediation techniques for contaminated water and soil. Environmental Technology and Innovation, 2022, 25, 102114.	3.0	93
56	Adsorption of basic dye onto raw and surfaceâ€modified agricultural waste. Environmental Progress and Sustainable Energy, 2014, 33, 87-98.	1.3	90
57	Agricultural waste materials for adsorptive removal of phenols, chromium (VI) and cadmium (II) from wastewater: A review. Environmental Research, 2022, 204, 111916.	3.7	90
58	Review on biopolymers and composites â€“ Evolving material as adsorbents in removal of environmental pollutants. Environmental Research, 2022, 212, 113114.	3.7	87
59	Influence of ultrasonic waves on preparation of active carbon from coffee waste for the reclamation of effluents containing Cr(VI) ions. Journal of Industrial and Engineering Chemistry, 2018, 60, 418-430.	2.9	86
60	A review on new aspects of lipopeptide biosurfactant: Types, production, properties and its application in the bioremediation process. Journal of Hazardous Materials, 2021, 407, 124827.	6.5	86
61	Recent advancements of spinel ferrite based binary nanocomposite photocatalysts in wastewater treatment. Chemosphere, 2021, 274, 129734.	4.2	86
62	Characteristics of thermodynamic, isotherm, kinetic, mechanism and design equations for the analysis of adsorption in Cd(II) ions-surface modified Eucalyptus seeds system. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 2957-2968.	2.7	84
63	Performance of montmorillonite/graphene oxide/CoFe2O4 as a magnetic and recyclable nanocomposite for cleaning methyl violet dye-laden wastewater. Advanced Powder Technology, 2020, 31, 3993-4004.	2.0	83
64	Bioconversion of municipal solid waste into bio-based products: A review on valorisation and sustainable approach for circular bioeconomy. Science of the Total Environment, 2020, 748, 141312.	3.9	83
65	Adsorption characteristics of magnetic nanoparticles coated mixed fungal biomass for toxic Cr(VI) ions in aquatic environment. Chemosphere, 2021, 267, 129226.	4.2	83
66	Prediction and interpretation of adsorption parameters for the sequestration of methylene blue dye from aqueous solution using microwave assisted corncob activated carbon. Sustainable Materials and Technologies, 2017, 11, 1-11.	1.7	82
67	Recent advancements in microbial fuel cells: A review on its electron transfer mechanisms, microbial community, types of substrates and design for bio-electrochemical treatment. Chemosphere, 2022, 286, 131856.	4.2	80
68	Preparation and characterization of porous cross linked laccase aggregates for the decolorization of triphenyl methane and reactive dyes. Bioresource Technology, 2012, 119, 28-34.	4.8	79
69	Ultrasonic modified corn pith for the sequestration of dye from aqueous solution. Journal of Industrial and Engineering Chemistry, 2016, 39, 162-175.	2.9	78
70	Degradation of toxic agrochemicals and pharmaceutical pollutants: Effective and alternative approaches toward photocatalysis. Environmental Pollution, 2022, 298, 118844.	3.7	78
71	Computation of adsorption parameters for the removal of dye from wastewater by microwave assisted sawdust: Theoretical and experimental analysis. Environmental Toxicology and Pharmacology, 2017, 50, 45-57.	2.0	77
72	Review on nanoadsorbents: a solution for heavy metal removal from wastewater. IET Nanobiotechnology, 2017, 11, 213-224.	1.9	77

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73	Adsorptive separation of toxic metals from aquatic environment using agro waste biochar: Application in electroplating industrial wastewater. Chemosphere, 2021, 262, 128031.	4.2	77
74	Green synthesis of ZrO2 nanoparticles and nanocomposites for biomedical and environmental applications: a review. Environmental Chemistry Letters, 2022, 20, 1309-1331.	8.3	77
75	Adsorption kinetics, mechanism, isotherm, and thermodynamic analysis of copper ions onto the surface modified agricultural waste. Environmental Progress and Sustainable Energy, 2014, 33, 28-37.	1.3	75
76	Adsorptive removal of Pb(II) ions from polluted water by newly synthesized chitosanâ€“polyacrylonitrile blend: Equilibrium, kinetic, mechanism and thermodynamic approach. Chemical Engineering Research and Design, 2015, 98, 187-197.	2.7	75
77	Adsorptive separation of Cu(II) ions from aqueous medium using thermally/chemically treated Cassia fistula based biochar. Journal of Cleaner Production, 2020, 249, 119390.	4.6	75
78	Microalgae for biofuel production and removal of heavy metals: a review. Environmental Chemistry Letters, 2020, 18, 1905-1923.	8.3	75
79	Recent developments in photocatalytic remediation of textile effluent using semiconductor based nanostructured catalyst: A review. Journal of Environmental Chemical Engineering, 2021, 9, 104881.	3.3	75
80	Adsorption of methylene blue dye from aqueous solution by agricultural waste: Equilibrium, thermodynamics, kinetics, mechanism and process design. Colloid Journal, 2011, 73, 651-661.	0.5	74
81	Adsorption of Metal Ions onto the Chemically Modified Agricultural Waste. Clean - Soil, Air, Water, 2012, 40, 188-197.	0.7	74
82	Production of optically pure lactic acid by microbial fermentation: a review. Environmental Chemistry Letters, 2021, 19, 539-556.	8.3	72
83	Advances in biosorbents for removal of environmental pollutants: A review on pretreatment, removal mechanism and future outlook. Journal of Hazardous Materials, 2021, 420, 126596.	6.5	72
84	Biogas upgrading, economy and utilization: a review. Environmental Chemistry Letters, 2021, 19, 4137-4164.	8.3	71
85	Management of Chromium Plating Rinsewater Using Electrochemical Ion Exchange. Industrial & Engineering Chemistry Research, 2008, 47, 2279-2286.	1.8	70
86	Adsorption behavior of methylene blue dye onto surface modified Strychnos potatorum seeds. Environmental Progress and Sustainable Energy, 2013, 32, 624-632.	1.3	70
87	Fabrication and characterization of a nanocomposite hydrogel for combined photocatalytic degradation of a mixture of malachite green and fast green dye. Nanotechnology for Environmental Engineering, 2017, 2, 1.	2.0	70
88	Mixed biosorbent of agro waste and bacterial biomass for the separation of Pb(II) ions from water system. Chemosphere, 2021, 277, 130236.	4.2	70
89	Lead(II) Adsorption onto Sulphuric Acid Treated Cashew Nut Shell. Separation Science and Technology, 2011, 46, 2436-2449.	1.3	69
90	A review on the microbial degradation of chlorpyrifos and its metabolite TCP. Chemosphere, 2021, 283, 131447.	4.2	69

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91	Carbon sphere: Synthesis, characterization and elimination of toxic Cr(VI) ions from aquatic system. Journal of Industrial and Engineering Chemistry, 2018, 60, 307-320.	2.9	68
92	Biohydrogen from organic wastes as a clean and environment-friendly energy source: Production pathways, feedstock types, and future prospects. Bioresource Technology, 2021, 342, 126021.	4.8	68
93	A review on recent advancements in recovery of valuable and toxic metals from e-waste using bioleaching approach. Chemosphere, 2022, 287, 132230.	4.2	68
94	Adsorption of dye onto raw and surface modified tamarind seeds: isotherms, process design, kinetics and mechanism. Desalination and Water Treatment, 2014, 52, 2620-2633.	1.0	67
95	Chemical, physical and biological methods to convert lignocellulosic waste into value-added products. A review. Environmental Chemistry Letters, 2022, 20, 1129-1152.	8.3	67
96	Application of silk sericin to polyester fabric. Journal of Applied Polymer Science, 2008, 109, 314-321.	1.3	65
97	Binding of Zn(II) ions to chitosanâ€“PVA blend in aqueous environment: Adsorption kinetics and equilibrium studies. Environmental Progress and Sustainable Energy, 2015, 34, 15-22.	1.3	64
98	Adsorptive potential of dispersible chitosan coated iron-oxide nanocomposites toward the elimination of arsenic from aqueous solution. Chemical Engineering Research and Design, 2016, 104, 185-195.	2.7	63
99	A review on systematic approach for microbial enhanced oil recovery technologies: Opportunities and challenges. Journal of Cleaner Production, 2020, 258, 120777.	4.6	63
100	A critical review on global trends in biogas scenario with its up-gradation techniques for fuel cell and future perspectives. International Journal of Hydrogen Energy, 2021, 46, 16734-16750.	3.8	63
101	Investigation of magnetic silica nanocomposite immobilized Pseudomonas fluorescens as a biosorbent for the effective sequestration of Rhodamine B from aqueous systems. Environmental Pollution, 2021, 269, 116173.	3.7	63
102	Conversion of food waste to energy: A focus on sustainability and life cycle assessment. Fuel, 2021, 302, 121069.	3.4	62
103	Adsorption isotherms, kinetics and mechanism of Pb(II) ions removal from aqueous solution using chemically modified agricultural waste. Canadian Journal of Chemical Engineering, 2013, 91, 1950-1956.	0.9	61
104	Techniques of lipid extraction from microalgae for biofuel production: a review. Environmental Chemistry Letters, 2021, 19, 231-251.	8.3	61
105	Sustainable adsorbents for the removal of pesticides from water: a review. Environmental Chemistry Letters, 2021, 19, 2425-2463.	8.3	61
106	Recent advancements in rapid analysis of pesticides using nano biosensors: A present and future perspective. Journal of Cleaner Production, 2020, 269, 122356.	4.6	61
107	Modelling on the removal of toxic metal ions from aquatic system by different surface modified Cassia fistula seeds. Bioresource Technology, 2019, 281, 1-9.	4.8	60
108	Occurrence and removal of antibiotics from industrial wastewater. Environmental Chemistry Letters, 2021, 19, 1477-1507.	8.3	60

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109	Anammox bacteria in treating ammonium rich wastewater: Recent perspective and appraisal. Bioresource Technology, 2021, 334, 125240.	4.8	59
110	Kinetics, equilibrium and thermodynamic investigations of methylene blue dye removal using Casuarina equisetifolia pines. Chemosphere, 2021, 285, 131480.	4.2	59
111	A review on adsorptive separation of toxic metals from aquatic system using biochar produced from agro-waste. Chemosphere, 2021, 285, 131438.	4.2	59
112	A review on recent advancements in bioenergy production using microbial fuel cells. Chemosphere, 2022, 288, 132512.	4.2	59
113	Rhizoremediation â€“ A promising tool for the removal of soil contaminants: A review. Journal of Environmental Chemical Engineering, 2020, 8, 103543.	3.3	58
114	Microbial degradation of recalcitrant pesticides: a review. Environmental Chemistry Letters, 2021, 19, 3209-3228.	8.3	58
115	Bio-derived catalysts for production of biodiesel: A review on feedstock, oil extraction methodologies, reactors and lifecycle assessment of biodiesel. Fuel, 2022, 316, 123379.	3.4	58
116	Adsorption of lead(<scp>II</scp>) ions from simulated wastewater using natural waste: A kinetic, thermodynamic and equilibrium study. Environmental Progress and Sustainable Energy, 2014, 33, 55-64.	1.3	57
117	Ultrasonic-assisted synthesis of Populus alba activated carbon for water defluorination: Application for real wastewater. Korean Journal of Chemical Engineering, 2019, 36, 1595-1603.	1.2	57
118	An effective separation of toxic arsenic from aquatic environment using electrochemical ion exchange process. Journal of Hazardous Materials, 2021, 412, 125240.	6.5	57
119	One pot Green Synthesis of Nano magnesium oxide-carbon composite: Preparation, characterization and application towards anthracene adsorption. Journal of Cleaner Production, 2019, 237, 117691.	4.6	56
120	Microwave pyrolysis of coal, biomass and plastic waste: a review. Environmental Chemistry Letters, 2021, 19, 3609-3629.	8.3	56
121	Recent technologies for nutrient removal and recovery from wastewaters: A review. Chemosphere, 2021, 277, 130328.	4.2	56
122	Experimental study on the performance and emission measures of direct injection diesel engine with Kapok methyl ester and its blends. Renewable Energy, 2015, 74, 903-909.	4.3	55
123	Removal of toxic Cr(VI) ions from tannery industrial wastewater using a newly designed three-phase three-dimensional electrode reactor. Journal of Physics and Chemistry of Solids, 2017, 110, 379-385.	1.9	55
124	Treatment of fluoride-contaminated water. A review. Environmental Chemistry Letters, 2019, 17, 1707-1726.	8.3	55
125	Perspective of Spirulina culture with wastewater into a sustainable circular bioeconomy. Environmental Pollution, 2021, 284, 117492.	3.7	55
126	Analysis on the removal of emerging contaminant from aqueous solution using biochar derived from soap nut seeds. Environmental Pollution, 2021, 287, 117632.	3.7	55

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127	A review on cleaner strategies for extraction of chitosan and its application in toxic pollutant removal. Environmental Research, 2021, 196, 110996.	3.7	54
128	Annealing temperature effect on cobalt ferrite nanoparticles for photocatalytic degradation. Chemosphere, 2021, 281, 130903.	4.2	54
129	Microwave assisted fast pyrolysis of corn cob, corn stover, saw dust and rice straw: Experimental investigation on bio-oil yield and high heating values. Sustainable Materials and Technologies, 2017, 11, 19-27.	1.7	53
130	Sustainable wastewater treatments in textile sector. , 2017, , 323-346.		53
131	Enhanced Zn(II) ion adsorption on surface modified mixed biomass â€“ Borassus flabellifer and Aspergillus tamarii: Equilibrium, kinetics and thermodynamics study. Industrial Crops and Products, 2020, 153, 112613.	2.5	53
132	Simultaneous removal of Cu(II) and reactive green 6 dye from wastewater using immobilized mixed fungal biomass and its recovery. Chemosphere, 2021, 271, 129519.	4.2	53
133	A review on nano-catalysts and biochar-based catalysts for biofuel production. Fuel, 2021, 306, 121632.	3.4	53
134	A comprehensive review on sources, analysis and toxicity of environmental pollutants and its removal methods from water environment. Science of the Total Environment, 2022, 812, 152456.	3.9	53
135	Sequestration of toxic Cr(VI) ions from industrial wastewater using waste biomass: A review. , 0, 68, 245-266.		52
136	Influence of tin (Sn) doping on Co3O4 for enhanced photocatalytic dye degradation. Chemosphere, 2021, 277, 130325.	4.2	51
137	Kinetic and thermodynamic analysis for the redemption of effluents containing Solochrome Black T onto powdered activated carbon: A validation of new solid-liquid phase equilibrium model. Journal of Molecular Liquids, 2018, 259, 88-101.	2.3	50
138	Rare earth metal (Sm) doped zinc ferrite (ZnFe2O4) for improved photocatalytic elimination of toxic dye from aquatic system. Environmental Research, 2021, 197, 111047.	3.7	49
139	Analysis and prediction of water quality using deep learning and auto deep learning techniques. Science of the Total Environment, 2022, 821, 153311.	3.9	48
140	Surface modified polymer-magnetic-algae nanocomposite for the removal of chromium- equilibrium and mechanism studies. Environmental Research, 2021, 201, 111626.	3.7	47
141	Electrodeionization theory, mechanism and environmental applications. A review. Environmental Chemistry Letters, 2020, 18, 1209-1227.	8.3	46
142	Facile single-step synthesis of MXene@CNTs hybrid nanocomposite by CVD method to remove hazardous pollutants. Chemosphere, 2022, 286, 131733.	4.2	46
143	Hybrid metal organic frameworks as an Exotic material for the photocatalytic degradation of pollutants present in wastewater: A review. Chemosphere, 2022, 288, 132448.	4.2	46
144	Modelling on the removal of Cr(VI) ions from aquatic system using mixed biosorbent (Pseudomonas) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.3	45

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145	Packed bed column optimization and modeling studies for removal of chromium ions using chemically modified Lantana camara adsorbent. Journal of Water Process Engineering, 2020, 33, 101069.	2.6	45
146	Theoretical calculation of biogas production and greenhouse gas emission reduction potential of livestock, poultry and slaughterhouse waste in Bangladesh. Journal of Environmental Chemical Engineering, 2021, 9, 105204.	3.3	45
147	Cannabis: Chemistry, extraction and therapeutic applications. Chemosphere, 2022, 289, 133012.	4.2	45
148	Advanced techniques to remove phosphates and nitrates from waters: a review. Environmental Chemistry Letters, 2021, 19, 3165-3180.	8.3	44
149	Electrochemical sensing system for the analysis of emerging contaminants in aquatic environment: A review. Chemosphere, 2022, 294, 133779.	4.2	44
150	Sources and impacts of pharmaceutical components in wastewater and its treatment process: A review. Korean Journal of Chemical Engineering, 2017, 34, 2787-2805.	1.2	43
151	Optical, electrical, mechanical, and thermal properties and non-isothermal decomposition behavior of poly(vinyl alcohol)â€“ZnO nanocomposites. Iranian Polymer Journal (English Edition), 2020, 29, 411-422.	1.3	43
152	Remediation of emerging metal pollutants using environment friendly biochar- Review on applications and mechanism. Chemosphere, 2022, 290, 133384.	4.2	43
153	Effective removal of malachite green dye from aqueous solution in hybrid system utilizing agricultural waste as particle electrodes. Chemosphere, 2021, 273, 129634.	4.2	42
154	Visible light driven exotic p (CuO) - n (TiO2) heterojunction for the photodegradation of 4-chlorophenol and antibacterial activity. Environmental Pollution, 2021, 287, 117304.	3.7	42
155	Novel synthesis of fluorescent carbon dots from bio-based Carica Papaya Leaves: Optical and structural properties with antioxidant and anti-inflammatory activities. Environmental Research, 2022, 204, 111854.	3.7	42
156	Adsorption of copper ions onto nano-scale zero-valent iron impregnated cashew nut shell. Desalination and Water Treatment, 2016, 57, 6487-6502.	1.0	41
157	Conversion of waste plastics into low-emissive hydrocarbon fuels through catalytic depolymerization in a new laboratory scale batch reactor. International Journal of Energy and Environmental Engineering, 2017, 8, 167-173.	1.3	41
158	Effective adsorption of Cu(II) ions on sustainable adsorbent derived from mixed biomass (Aspergillus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Development, 2020, 11, 100460.	2.3	41
159	Sustainable approach to decolourize methyl orange dye from aqueous solution using novel bacterial strain and its metabolites characterization. Clean Technologies and Environmental Policy, 2021, 23, 173-181.	2.1	41
160	Optimization and modeling of reactive yellow adsorption by surface modified Delonix regia seed: Study of nonlinear isotherm and kinetic parameters. Surfaces and Interfaces, 2020, 20, 100520.	1.5	40
161	Critical review on biological treatment strategies of dairy wastewater. , 0, 160, 94-109.		40
162	Current advances in microbial fuel cell technology toward removal of organic contaminants â€“ A review. Chemosphere, 2022, 287, 132186.	4.2	39

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163	Invasive plants as biosorbents for environmental remediation: a review. Environmental Chemistry Letters, 2022, 20, 1421-1451.	8.3	39
164	Investigation on environmental factors of waste plastics into oil and its emulsion to control the emission in DI diesel engine. Ecotoxicology and Environmental Safety, 2016, 134, 440-444.	2.9	38
165	Adsorption of Cu(II) ions by modified horn core: Effect of temperature on adsorbent preparation and extended application in river water. Journal of Molecular Liquids, 2020, 298, 112023.	2.3	38
166	Sequential production of hydrogen and methane by anaerobic digestion of organic wastes: a review. Environmental Chemistry Letters, 2021, 19, 1043-1063.	8.3	38
167	A review on critical assessment of advanced bioreactor options for sustainable hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 7113-7136.	3.8	38
168	Cobalt and nickel oxides supported activated carbon as an effective photocatalysts for the degradation Methylene Blue dye from aquatic environment. Sustainable Chemistry and Pharmacy, 2021, 21, 100406.	1.6	38
169	Utilization of Ag2Oâ€“Al2O3â€“ZrO2 decorated onto rGO as adsorbent for the removal of Congo red from aqueous solution. Environmental Research, 2021, 197, 111179.	3.7	38
170	A review on remedial measures for effective separation of emerging contaminants from wastewater. Environmental Technology and Innovation, 2021, 23, 101741.	3.0	38
171	Feasibility of magnetic nano adsorbent impregnated with activated carbon from animal bone waste: Application for the chromium (VI) removal. Environmental Research, 2022, 203, 111813.	3.7	38
172	Effect of Antibiotics on the Microbial Efficiency of Anaerobic Digestion of Wastewater: A Review. Frontiers in Microbiology, 2020, 11, 611613.	1.5	38
173	Sustainable approach on removal of toxic metals from electroplating industrial wastewater using dissolved air flotation. Journal of Environmental Management, 2021, 295, 113147.	3.8	37
174	A comprehensive insight from microalgae production process to characterization of biofuel for the sustainable energy. Fuel, 2022, 310, 122320.	3.4	37
175	Surface adsorption of poisonous Pb(II) ions from water using chitosan functionalised magnetic nanoparticles. IET Nanobiotechnology, 2017, 11, 433-442.	1.9	36
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